



Andrea Petruccioli

Date of birth: 23/10/1993 | Nationality: Italian | Gender: Male | (+39) 3475580694 |

andrea.petruccioli.93@gmail.com | andrea.petruccioli@unimore.it |

andrea.petruccioli2@unibo.it | <https://www.unibo.it/sitoweb/andrea.petruccioli2/> |

<http://personale.unimore.it/rubrica/dettaglio/apetrucc> |

<https://www.facebook.com/andrea.petruccioli.7> |

<https://www.instagram.com/petruccioliandrea/?hl=it> |

Skype: <https://join.skype.com/invite/knMt0GuBFvYC> |

via Claudio Monteverdi, 22, 01100, Viterbo, Italy

● WORK EXPERIENCE

01/11/2018 – CURRENT

PHD SCHOLAR AT DIF UNIMORE – Alma Mater Studiorum - Università di Bologna

Automotive for intelligent mobility

Automotive for a smart mobility - Vehicle Design, Manufacturing and Systems Integration curriculum - Research field: tolerance analysis of composite materials on automotive body components

Bologna, Italy

01/11/2019 – CURRENT

RESEARCH FELLOW AT DIF UNIMORE – Università degli Studi di Modena e Reggio Emilia

Vehicle Engineer

Research project: "Studio, sviluppo ed applicazione di metodi computer-based per l'integrazione di aspetti funzionali ed estetici per il settore automotive"

Modena, Italy

01/11/2018 – 31/10/2019

RESEARCH FELLOW AT DIF UNIMORE – Università degli Studi di Modena e Reggio Emilia

Vehicle Engineer

Research project: "Studio, sviluppo ed applicazione di metodi computer-based per l'integrazione di aspetti funzionali ed estetici per il settore automotive"

Modena, Italy

2018 – CURRENT

SCIENTIFIC PUBLICATION

- Vergnano, A., Gherardini, F., Petruccioli, A., Bonazzi, E., & Leali, F. (2019, September). Robust Parameter Analysis of Compliant Part Models for Computer Aided Tolerancing. In International Conference on Design, Simulation, Manufacturing: The Innovation Exchange (pp. 241-254). Springer, Cham.

- Gherardini, F., Petruccioli, A., Dalpadulo, E., Bettelli, V., Mascia, M. T., & Leali, F. (2020, February). A Methodological Approach for the Design of Inclusive Assistive Devices by Integrating Co-design and Additive Manufacturing Technologies. In International Conference on Intelligent Human Systems Integration (pp. 816-822). Springer, Cham.

- Petruccioli A., Gherardini F., Panari D., & Leali F. (2020, June). Computer-Aided Tolerancing analysis of a high-performance car engine assembly. In International Joint Conference on Mechanics, Design Engineering and Advanced Manufacturing (JCM 2020).

01/11/2018 – CURRENT

TEACHING AND EDUCATIONAL ACTIVITIES

Teaching activities during the PhD course

- Teaching assistant of the course "Disegno Tecnico Industriale", for the Vehicle Engineer degree (a.a. 2018/2019, a.a. 2019/2020), DIF UNIMORE
- Teaching assistant of the course "Costruzioni Automobilistiche", for the Vehicle Engineer master degree (a.a. 2018/2019, a.a. 2019/2020), DIF UNIMORE
- Teaching assistant of the course "Vehicle Conceptual Design", for the Advanced Automotive Engineering master degree (a.a. 2018/2019, a.a. 2019/2020), DIF UNIMORE
- Teaching assistant of the course "Design Methods", for the Vehicle Engineer master degree (a.a. 2018/2019, a.a. 2019/2020), DIF UNIMORE
- Teaching assistant of the course "Automotive Computer Aided Design", for the Advanced Automotive Engineering master degree (a.a. 2018/2019, a.a. 2019/2020), DIF UNIMORE
- Teaching of the course "Misurazione e sistemi di misura", for the ITS course "Tecnico superiore per la produzione di apparecchi e dispositivi biomedicali", ITS Biomedicale, Mirandola (MO), 2019/2020
- Teaching of the course "Misurazione e sistemi di misura", for the ITS course "Tecnico superiore industria 4.0 per l'innovazione della produzione di medical device", ITS Biomedicale, Mirandola (MO), 2019/2020
- Teaching of the course "Lettura ed interpretazione del disegno tecnico", for the ITS course "Tecnico superiore per la produzione di apparecchi e dispositivi biomedicali", ITS Biomedicale, Mirandola (MO), 2019/2020
- Teaching of the course "Lettura ed interpretazione del disegno tecnico", for the ITS course "Tecnico superiore industria 4.0 per l'innovazione della produzione di medical device", ITS Biomedicale, Mirandola (MO), 2019/2020
- Teaching of the course "Disegno con sistemi CAD 3D", for the ITS course "Tecnico superiore per la produzione di apparecchi e dispositivi biomedicali", ITS Biomedicale, Mirandola (MO), 2019/2020
- Teaching for the lecture "3D surface modelling", for the course "Tecnico restauratore di carrozzeria d'auto d'epoca", CNI Ecipar, DIF UNIMORE, Modena, 10/02/2020
- Teaching for the lecture "Le tecnologie a supporto del restauro di carrozzeria e componenti: scansione 3D, reverse modelling, additive manufacturing" for the course "Introduzione al restauro di veicoli d'epoca e di interesse storico", CNI Ecipar, DIF UNIMORE, Modena, 21/03/2019
- Teaching for the module "Smart Design- il processo di progettazione integrato di prodotto/processo" for the course "Tecnico esperto nella gestione di progetti di trasformazione digitale" (2018-2019), Centro Formazione Innovazione Ferrara
- Teaching for the module "Introduction and basics of mechanics – Vehicle Architecture" for the Master "ADBoT – Autonomous Driving and enabling Technologies" (2018-2019), UNITN, 21/05/2019

Teaching activities during the Master Degree

- Collaboration for the lecture on "3D surface modelling" of the course "Design Methods", for the Vehicle Engineer master degree (a.a. 2017/2018), DIF UNIMORE, 2018

01/10/2018 – 01/11/2018

INTERNSHIP AT DIF UNIMORE – Università degli Studi di Modena e Reggio Emilia

3D Modelling Additive Manufacturing Engineer

Collaboration in Codesign project "3DPrint2Enable - development of custom codesigned aids to overcome difficulties using hands", Dipartimento di Ingegneria Enzo Ferrari e Dipartimento di Scienze Mediche e Chirurgiche Materno Infantili e dell'Adulto, Unimore: solid and customizable parametric component surfaces 3D CAD modeling to be realized through additive manufacturing technology

Modena, Italy

15/02/2018 – 25/06/2018

TRAINERSHIP AT MODELLERIA MODENESE SRL – Via della tecnica, 20, 41122

Project and the 3D modeling of a sports car concept with a Retractable Hard Top mechanism, design of the prototype and production of the scale model.

Modena, Italy

● **EDUCATION AND TRAINING**

12/2018

PASSED THE GOVERNMENT EXAM AND LICENSED AS A PROFESSION ENGINEER

09/2015 – 07/2018 – Modena, Italy

MASTER'S DEGREE: AUTOMOTIVE ENGINEERING (LM-33), VOTE 110/110 CUM LAUDE, 17/07/2018 – UNIMORE: ENZO FERRARI Department (DIF)

Master thesis: Project and 3D modeling of a concept car vehicle with a Retractable Hard Top mechanism, and design of the prototype

Mechanical design: Power up for car engine, this project was part of engine structural course

Design methods: Engineering of a car dashboard module, with a focus on tolerance design

Participation to Formula Student: Aerodynamics team

Architectural car layouts definition: Project of car platform in collaboration with Ferrari engineers

Attending automotive courses, seminars and conferences

09/2012 – 09/2015 – Perugia, Italy

BACHELOR'S DEGREE: MECHANICAL ENGINEERING (L-9), VOTE 107/110, 24/09/2018 – UN
IPG: Engineering Department

***Bachelor's thesis** : Project of a gearmotor with complete sizing and structural verifications*
Participation of Formula Student: Aerodynamics team

09/2007 – 07/2012 – Viterbo, Italy

CLASSICAL MATURITY, VOTE 100 CUM LAUDE/100 – Liceo Classico Mariano Buratti

● LANGUAGE SKILLS

Mother tongue(s): ITALIANO

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B2	B2	B2	B2	B2
SPANISH	A2	A2	A1	A1	A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● ORGANISATIONAL SKILLS

Organisational skills

Good organisational skills gained during Project works

● COMMUNICATION AND INTERPERSONAL SKILLS

Communication and interpersonal skills

Good communication skills gained from my experience during university and during high school; member of a staff team for local events in Viterbo.

Good communication skills gained from my experience of collaboration in lessons at university (see above)